



**FINAL WORK PLAN
VOLUME 2 - CONFIDENTIAL BUSINESS INFORMATION
OVERSIGHT OF PRP REMEDIAL ACTION ACTIVITIES
AMERICAN CHEMICAL SERVICES SITE
GRIFFITH, INDIANA**

EPA Work Assignment 057-ROBF-05J7
BVSPC Project No. 46526

April 16, 2001

Prepared By

Black & Veatch Special Projects Corp.
101 North Wacker Drive, Suite 1100
Chicago, Illinois 60606

Except for data contained on all pages of Volume 2 of this document, it is agreed that as a condition of award of this contract, and notwithstanding the conditions of any notice appearing hereon, the Government shall have unlimited rights (as defined in Contract No. 68-W5-0004) in and to the technical data contained in this document upon which this work assignment is based.

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Enforcement Support
EPA Contract No.: 68-W5-0004
Work Assignment No.: 057-ROBF-05J7

Work Plan
Rev. No.: 0

OP Form 60

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CONTRACT PRICING PROPOSAL
(Research and Development)

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04/13/2001

Black & Veatch Special Projects Corp.
101 North Wacker Drive, Suite 1100
Chicago, Illinois 60606

Work Assignment: 057-ROBF-05J7

LOCATION: Griffith, IN

PROPOSAL AMOUNT
\$806,166.33

CONTRACT #
68-W5-0004

	DESCRIPTION	HOURS	COST	TOTAL COST
3.	DIRECT LABOR			
	P4	58	\$3,220.74	
	P3	1,324	\$56,097.88	
	P2	4,262	\$160,662.32	
	P1	2,456	\$59,518.57	
	T2	26	\$581.88	
	T1	8	\$146.96	
	O	248	\$4,255.68	
	TOTAL DIRECT LABOR	8,382		\$284,484.03
	TOTAL P-T HOURS	8,134		
4	LABOR OVERHEAD			\$364,896.30
6.	EQUIPMENT			\$0.00
7.	TRAVEL			\$64,221.50
8.	SUBCONTRACT			
	Team Subcontractors			\$0.00
	Subcontract Pool			\$0.00
9.	OTHER DIRECT COSTS			\$19,358.50
10	TOTAL DIRECT COST AND OVERHEAD			\$732,960.33
11.	FACILITIES CAPITAL COST OF MONEY			\$0.00
13	TOTAL ESTIMATED COST			\$732,960.33
14.	FEE OR PROFIT			\$73,206.00
15.	SUBTOTAL ESTIMATED COST AND FEE			\$806,166.33
16.	CONTRACTORS POLLUTION LIABILITY INSURANCE			\$0.00
17.	TOTAL ESTIMATED COST PLUS FEE			\$806,166.33

OPTIONAL FORM 60

CONTRACT PRICING PROPOSAL
(Research and Development)

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04/13/2001

Black & Veatch Special Projects Corp
101 North Wacker Drive, Suite 1100
Chicago, Illinois 60606

Work Assignment: 057-ROBF-05J7

LOCATION: Griffith, IN

PROPOSAL AMOUNT
\$806,166.33

CONTRACT #
68-W5-0004

EXHIBIT A - SUPPORTING SCHEDULE

COST ELEMENT	ESTIMATED		
	<u>TOTAL COST</u>		
3. DIRECT LABOR			
Black & Veatch Special Projects Corp			
	<u>P Grade</u>	<u>Hours</u>	<u>Rate</u>
	P4	58	\$55.53
	P3	1324	\$42.37
	P2	4262	\$37.70
	P1	2456	\$24.23
	T2	26	\$22.38
	T1	8	\$18.37
	O	248	\$17.16
Team Subcontractor - BLACK & VEATCH			
	P4	0	\$0.00
	P3	0	\$0.00
	P2	0	\$0.00
	P1	0	\$0.00
	T2	0	\$0.00
	T1	0	\$0.00
	O	0	\$0.00
Team Subcontractor - TAPAN AM			
	P4	0	\$0.00
	P3	0	\$0.00
	P2	0	\$0.00
	P1	0	\$0.00
	T2	0	\$0.00
	T1	0	\$0.00
	O	0	\$0.00
Pool Subcontractors			
	P4	0	\$0.00
	P3	0	\$0.00
	P2	0	\$0.00
	P1	0	\$0.00
	T2	0	\$0.00
	T1	0	\$0.00
	O	0	\$0.00
Totals		8,382	\$284,484.03

**CONTRACT PRICING PROPOSAL
(Research and Development)**

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04/13/2001

Black & Veatch Special Projects Corp.
101 North Wacker Drive, Suite 1100
Chicago, Illinois 60606

Work Assignment: 057-ROBF-05J7

LOCATION Griffith, IN

PROPOSAL AMOUNT
\$806,166.33

CONTRACT #
68-W5-0004

EXHIBIT A - SUPPORTING SCHEDULE (continued)

COST ELEMENT	<u>% RATE</u>	<u>ESTIMATED TOTAL COST</u>
4. LABOR OVERHEAD		
Fringe	0.000	
Overhead	1.28266	\$364,896.30
		\$364,896.30
6. EQUIPMENT		\$0.00
7. TRAVEL		\$64,221.50
9. OTHER DIRECT COSTS		
ODC Computer		\$5,384.50
ODC Telephone		\$3,676.00
ODC Mail/Courier		\$1,794.00
ODC Reprographics		\$770.00
ODC Supplies		\$7,734.00
ODC Outside Services		\$0.00
ODC Laboratory		\$0.00
ODC Utilities		\$0.00
ODC Relocation		\$0.00
ODC Miscellaneous		\$0.00
		\$19,358.50
Subcontract Pool		\$0.00
14. FEE OR PROFIT		
Base Fee (\$3.60 X professional/technical LOE hours)		\$29,282.40
Base Fee - Equipment Pool (4% of equipment costs)		\$0.00
Base Fee - Subcontractors (2% of subcontract costs)		\$0.00
Award Fee (\$5.40 X professional/technical LOE hours)		\$43,923.60
Award Fee - Equipment Pool (6% of equipment costs)		\$0.00
Award Fee - Subcontractors (3% of subcontractor costs)		\$0.00
Award Fee - Pool Subcontractors Contract Type:		
Other		
		\$73,206.00

OPTIONAL FORM 60

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CONFIDENTIAL BUSINESS INFORMATION LABOR, OVERHEAD, AND G&A RATES SHALL NOT BE RELEASED TO ANYONE OUTSIDE EPA OR DISCLOSED TO ANY EMPLOYEE WITHOUT A NEED TO KNOW

COST ESTIMATE---BLACK & VEATCH SPECIAL PROJECTS CORP.

SITE: American Chemical Services

Work Assignment: 057-ROBF-05J7

BVSPC--LOADED RATES INCLUDE OVERHEAD

	RATE	TASK 1 HRS	TASK 2 HRS	TASK 3 HRS	TASK 4 HRS	TASK 5 HRS	TASK 6 HRS	TASK 7 HRS	TASK 8 HRS	TASK 9 HRS	TASK 10 HRS	TOTAL
P4	\$126.76	37	0	0	0	0	0	8	4	0	9	58
P3	\$96.72	279	24	0	0	0	0	119	728	148	26	1,324
P2	\$86.06	68	12	0	0	0	0	372	3,670	128	12	4,262
P1	\$55.31	0	0	0	0	0	0	0	2,446	0	10	2,456
T2	\$51.09	6	0	0	0	0	0	0	20	0	0	26
T1	\$41.93	0	8	0	0	0	0	0	0	0	0	8
Total Professional & Tech Hrs		390	44	0	0	0	0	499	6,868	276	57	8,134
Clerical Hours	\$39.17	68	0	0	0	0	0	35	136	0	9	248
Prof & Tech Labor & O/H		\$37,832	\$3,689	\$0	\$0	\$0	\$0	\$44,536	\$523,038	\$25,329	\$5,241	639,666
Total Clerical Labor & O/H		\$2,664	\$0	\$0	\$0	\$0	\$0	\$1,371	\$5,327	\$0	\$353	9,714
Total Labor & Overhead		\$40,496	\$3,689	\$0	\$0	\$0	\$0	\$45,907	\$528,365	\$25,329	\$5,594	\$649,380
2. Total Travel Costs		\$0	\$746	\$0	\$0	\$0	\$0	\$432	\$62,620	\$424	\$0	64,222
3. Total ODC's Costs		\$2,047	\$531	\$0	\$0	\$0	\$0	\$769	\$14,722	\$319	\$971	19,359
4. Total Equipment Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
5. Team Subcontractors		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
Subcontracting		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
6. Subtotal		\$42,542	\$4,966	\$0	\$0	\$0	\$0	\$47,108	\$605,707	\$26,072	\$6,565	\$732,960
Base & Award Fee		\$3,510	\$396	\$0	\$0	\$0	\$0	\$4,491	\$61,812	\$2,484	\$513	73,206
Pollution Liability Ins.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
Total Cost & Fee		\$46,052	\$5,362	\$0	\$0	\$0	\$0	\$51,599	\$667,519	\$28,556	\$7,078	\$806,166

BVSPC--LOADED RATES INCLUDE OVERHEAD

	RATE	SUBTOTAL TASKS 1-10	TASK 11 HRS	TASK 12 HRS	TASK 13 HRS	TASK 14 HRS	TASK 15 HRS	TASK 16 HRS	TASK 17 HRS	TASK 18 HRS	TASK 19 HRS	GRAND TOTAL TOTAL
P4	\$126.76	58										58
P3	\$96.72	1,324										1,324
P2	\$86.06	4,262										4,262
P1	\$55.31	2,456										2,456
T2	\$51.09	26										26
T1	\$41.93	8										8
Total Professional & Tech Hrs		8,134										8,134
Clerical Hours	\$39.17	248										248
Prof & Tech Labor & O/H		\$639,666										639,666
Total Clerical Labor & O/H		\$9,714										9,714
Total Labor & Overhead		\$649,380										\$649,380
2. Total Travel Costs		\$64,222										64,222
3. Total ODC's Costs		\$19,359										19,359
4. Total Equipment Costs		\$0										0
5. Team Subcontractors		\$0										0
Subcontracting		\$0										0
6. Subtotal		\$732,960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$732,960
Base & Award Fee		\$73,206										73,206
Pollution Liability Ins.		\$0										0
Total Cost & Fee		\$806,166	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$806,166

ESTIMATED BY: L.M. Campbell

DATE: 13-Apr-01

REVIEWED BY: W.T. Dudley

DATE: 13-Apr-01

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TASK SUMMARY INFORMATION

The level of effort (LOE) and costs presented throughout this Volume 2 are based on the specific activities required to complete the tasks described in Volume 1, Technical Approach. The cost assumptions included in this Volume only present clarifications for the costs projected to complete the work assignment tasks. Averages of the hourly rates for option years 2, 3, 4, and 5 have been used as most representative of the actual rates anticipated during life of the project from 2001 to 2005. Supporting schedules of estimates for the major components in this Volume 2 are included as attachments.

The text and spreadsheets in this Final Work Plan have been revised to incorporate the changes negotiated by EPA and BVSPC during the negotiations conference call on Thursday April 12, 2001.

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Black & Veatch Special Projects Corp
DETAILED COST ESTIMATE

PAGE 1 OF 2

Acct No 01TR205F50102D05J7BF01 DCN SEX002
Work Assignment: 057-ROBF-05J7 Mod. No 179
American Chemical Services Mod Date Dec 19, 2000
Remedial Action Oversight
LOCATION Griffith, IN OU No 0
Work Type - RA Oversight Work Form T
Site Specific Work Area Code = RO Activity Code = P
Start Date: December 19, 2000 End Date: June 14, 2005
PROJECT: 46526

EXPENDITURE LIMITS \$100,000 LOE 695
DIRECT LABOR
DIRECT CHARGES \$0 0
TRAVEL \$0 0
Budget Approval Status: UR
Site Spill ID (S/SID): 05J7
Allocation Code: N/A

TASK SUMMARY

LABOR USAGE

LABOR CATEGORY

HOURS	AVERAGE RATES 2001-2005	TOTALS
Professional Level 4 (P4)	58	\$3,220.74
Professional Level 3 (P3)	1,324	\$56,097.88
Professional Level 2 (P2)	4,262	\$160,662.32
Professional Level 1 (P1)	2,456	\$59,518.57
Technician Level 2 (T2)	26	\$581.88
Technician Level 1 (T1)	8	\$146.96
TOTAL P/T LABOR	8,134	\$280,228.35
Clerical	248	\$4,255.68
TOTAL LABOR	8,382	\$284,484.03

FEE ESTIMATE *

1. TOTAL LABOR		\$284,484.03
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$364,896.30
3. TRAVEL:		
AIR FARE	\$1,400.00	
GROUND TRANSPORTATION	\$53,595.50	
MEALS/LODGING	\$9,226.00	\$64,221.50
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$770.00	
SUPPLIES	\$7,734.00	
MAIL/COURIER	\$1,794.00	
COMPUTER COSTS	\$5,384.50	
REPORTS	\$0.00	
TELEPHONE	\$3,676.00	\$19,358.50
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$732,960.33
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$732,960.33
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$29,282.40
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$43,923.60
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$806,166.33
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$806,166.33

ESTIMATED BY: L.M. Campbell	APPROVED BY: W.T. Dudley	TOTAL COST	\$806,166.33
DATE: 13-Apr-01	DATE: 13-Apr-01		
	PROGRAM MANAGER: R.H. Herzog	EPA WAM: K. Adler	
	SITE MANAGER: L.M. Campbell	EPA PO: W. Gresham	

* All costs are estimated based upon our best engineering judgment.

LABOR HOURS SUMMARY

PAGE 2 OF 2

PROJECT: 46526

TASK SUMMARY

	TASK NO. 1	TASK NO. 2	TASK NO. 3	TASK NO. 4	TASK NO. 5	TASK NO. 6	
Labor Category	Hours	Hours	Hours	Hours	Hours	Hours	
Professional Level 4 (P4)	37	0	0	0	0	0	
Professional Level 3 (P3)	279	24	0	0	0	0	
Professional Level 2 (P2)	68	12	0	0	0	0	
Professional Level 1 (P1)	0	0	0	0	0	0	
Technician Level 2 (T2)	6	0	0	0	0	0	
Technician Level 1 (T1)	0	8	0	0	0	0	
Clerical	68	0	0	0	0	0	
Task Subtotal Hours	458	44	0	0	0	0	
Task Subtotal LOE Hours	390	44	0	0	0	0	
	TASK NO. 7	TASK NO. 8	TASK NO. 9	TASK NO. 10			Totals
Labor Category	Hours	Hours	Hours	Hours			Hours
Professional Level 4 (P4)	8	4	0	9			58
Professional Level 3 (P3)	119	728	148	26			1,324
Professional Level 2 (P2)	372	3670	128	12			4,262
Professional Level 1 (P1)	0	2446	0	10			2,456
Technician Level 2 (T2)	0	20	0	0			26
Technician Level 1 (T1)	0	0	0	0			8
Clerical	35	136	0	9			248
Task Subtotal Hours	534	7,004	276	66			8,382
Task Subtotal LOE Hours	499	6,868	276	57			8,134

Task 1 - Project Planning and Support Cost Assumptions

The majority of the cost assumptions associated with this task are highlighted or are apparent in the task detail estimate work sheet. Other specific cost assumptions are as follows:

- The work assignment (WA) duration has been estimated to be 54 months (January 2001 through June 2005) for administrative purposes (Task 1). The duration of other tasks will be less, as described in each task.
- The kickoff meeting was attended by the Site Manager (SM), Project Geologist, and the RAC Program Manager.
- An orientation site visit was not budgeted because the SM has prior knowledge of the site from work under the previous WA 30.
- A nominal effort has been budgeted to evaluate existing information including the Record of Decision (ROD), ROD Amendment, Consent Decree, and the PRP Group's Final Design Report, Health and Safety Plan (HASP), and Quality Assurance Project Plan (QAPP).
- This work plan was prepared by the SM and Project Geologist, with review by the RAC Program Manager and Deputy Program Manager. Work plan development includes preparation of draft and final work plans and attendance at a fact finding/negotiations conference call.
- The existing BVSPC HASP for the ACS site will be updated to reflect recent changes in the requirements of 29 CFR 1910.120.
- No effort has been budgeted, however, to update/revise the BVSPC ACS QAPP or Field Sampling Plan because collection of split samples is not within the EPA Statement of Work (SOW) for this WA.
- The effort expended for monthly administration and reporting has been budgeted at 2.5 hours for the SM, 0.5 hour for the RAC Program Manager, and 1 hour for clerical staff. Participation in scoping, planning, and Site Manager's meetings are assumed to require approximately 1 hour for the SM each month.

- The SM is a P4-level employee and will be involved in all tasks of this WA. Because this level is not required for most tasks, the SM LOE has been budgeted at a P3 level.
- Personal vehicle use during the WA has been budgeted at the federal standard mileage rate of \$0.325 per mile.
- Rental vehicles used during the WA have been budgeted at a fuel rate of \$0.15 per mile and a rental rate of \$70 per day.

DETAILED COST ESTIMATE

Acct No 01TR205F50102D05J7BF01 DCN SEX002
 Work Assignment 057-ROBF-05J7 Mod. No 179
 American Chemical Services Mod. Date Dec. 19, 2000
 Remedial Action Oversight
 LOCATION: Griffith, IN OU No 0
 Work Type - RA Oversight Work Form T
 Site Specific Work Area Code = RO Activity Code = P
 Start Date: December 19, 2000 End Date: June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
 DIRECT LABOR
 DIRECT CHARGES \$0 0
 TRAVEL \$0 0
 Budget Approval Status: UR
 Site Spill ID (S/SID) 05J7
 Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 1

PHASE NAME - PROJECT PLANNING AND SUPPORT

TASK CATEGORY CODE - PP

TASK TYPE - E

BVSPC PHASE NUMBER - 231

LABOR USAGE

LABOR CATEGORY

HOURS

AVERAGE RATES

2001-2005

TOTALS

Professional Level 4 (P4)	37	\$55.53	\$2,054.61
Professional Level 3 (P3)	279	\$42.37	\$11,821.23
Professional Level 2 (P2)	68	\$37.70	\$2,563.60
Professional Level 1 (P1)	0	\$24.23	\$0.00
Technician Level 2 (T2)	6	\$22.38	\$134.28
Technician Level 1 (T1)	0	\$18.37	\$0.00
TOTAL P/T LABOR	390		\$16,573.72
Clerical	68	\$17.16	\$1,166.88
TOTAL LABOR	458		\$17,740.60

FEE ESTIMATE *

1. TOTAL LABOR		\$17,740.60
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$22,755.16
3. TRAVEL:		
AIR FARE	\$0.00	
GROUND TRANSPORTATION	\$0.00	
MEALS/LODGING	\$0.00	\$0.00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$350.00	
SUPPLIES	\$0.00	
MAIL/COURIER	\$108.00	
COMPUTER COSTS	\$1,372.50	
REPORTS	\$0.00	
TELEPHONE	\$216.00	\$2,046.50
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$42,542.26
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$42,542.26
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$1,404.00
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$2,106.00
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$46,052.26
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$46,052.26

ESTIMATED BY: L.M. Campbell
 DATE: 13-Apr-01

APPROVED BY: W.T. Dudley
 DATE: 13-Apr-01
 PROGRAM MANAGER: R.H. Herzog
 SITE MANAGER: L.M. Campbell

TOTAL COST \$46,052.26
 EPA WAM: K. Adler
 EPA PO: W. Gresham

* All costs are estimated based upon our best engineering judgment.

PROJECT: 46526

PHASE NAME - PROJECT PLANNING AND SUPPORT

	Kickoff Meeting	Review Background Documents	Develop Work Plan	Revise/update HASP	Monthly Reporting and Coordination	Scoping, Planning, and SM Meetings	
Labor Category	Hours	Hours	Hours	Hours	Hours	Hours	Hours
Professional Level 4 (P4)	2	0	6	2	27	0	
Professional Level 3 (P3)	2	30	50	8	135	54	
Professional Level 2 (P2)	2	30	20	16	0	0	
Professional Level 1 (P1)	0	0	0	0	0	0	
Technician Level 2 (T2)	0	0	4	2	0	0	
Technician Level 1 (T1)	0	0	0	0	0	0	
Clerical	0	0	10	4	54	0	
Total Hours =	6	60	90	32	216	54	0
LOE Hours =	6	60	80	28	162	54	0

							TOTAL
Labor Category	Hours						Hours
Professional Level 4 (P4)							37
Professional Level 3 (P3)							279
Professional Level 2 (P2)							68
Professional Level 1 (P1)							0
Technician Level 2 (T2)							6
Technician Level 1 (T1)							0
Clerical							68
Total Hours =	0	0	0	0	0	0	458
LOE Hours =	0	0	0	0	0	0	390

TRAVEL BREAKDOWN

TASK NUMBER - 1

PAGE 3 OF 4

PROJECT: 46526

PHASE NAME - PROJECT PLANNING AND SUPPORT

WORK ASSIGNMENT SCOPING AND PLANNING MEETINGS

AIR FARE	0 PERSON	X	/TRIP X	TRIPS	=	0.00
GROUND TRANSPORTATION						
MILEAGE -	\$0.325 /MILE	X	0 MILES/TRIP X	0 TRIPS	=	0.00
PARKING -	\$15.00 /MEETING	X		0 MEETINGS	=	0.00
MEALS/LODGING	PERSONS	X	\$85.00 /DAY X	0 DAYS	=	0.00
TOTAL						\$0.00

The Federal Travel Directory per diem rate (effective October 1, 2000) for continental US is \$55 per day for lodging and \$30 per day for meals and incidental expenses, for a total of \$85 per day.

PROJECT: 46526

PHASE NAME - PROJECT PLANNING AND SUPPORT

1 Micro-computer								
Graphics Workstation			4.50 hours	X	\$11.00 per hour	=	\$49.50	
General Use Workstation			147.00 hours	X	\$9.00 per hour	=	\$1,323.00	
2. Long Distance Telephone								
Office	1 call/month	X	54 months	X	\$4.00 per call	=	\$216.00	
3. General Postage	1 item/month	X	54 months	X	\$2.00 /item	=	\$108.00	
4 Reproduction	5000 copies	X			\$0.07 /copy	=	\$350.00	
5 Supplies	0 tabs	X	set(s)	X	0.15 /set		\$0.00	
	0 binders	X	set(s)	X	\$2.00 /binder		\$0.00	
6 Shipping								
Courier	items/month	X	months	X	\$10.00 /item	=	\$0.00	
7 Team Subcontractors								
					Team Subcontractor Total	=	\$0.00	
8. Subcontractor Pool								
					Subcontractor Pool Total	=	\$0.00	
					TOTAL ODC'S	=	\$2,046.50	

Assumptions:

Graphics work station hours = 75 % of Technician Hours

General use workstation - 25% of Professional Level + 75% of Clerical Hours

Task 2 - Community Relations Technical Support Cost Assumptions

The majority of the cost assumptions associated with this task are highlighted or are apparent in the task detail estimate work sheet. Other specific cost assumptions are as follows:

- BVSPC has budgeted for one public meeting and two availability sessions to be held at or near the site. One P3 or P2 will attend each meeting and session. We assume the meeting and sessions (two per day) will be held on 2 separate days. Travel and lodging costs have been included for one BVSPC community relations or technical specialist, who will be traveling from another BVSPC office, to attend 2 days of meeting/sessions. Each specialist will spend one-half day preparing for the meeting and sessions before each of the 2 days.*
- Rental vehicle use during this task has been budgeted at a fuel rate of \$0.15 per mile and a rental rate of \$70 per day

* As agreed during the negotiations conference call on April 12, 2001, P2 and P3 LOE have been reduced by 50% and T1 LOE has been added. Based on these changes, one day trip has been eliminated.

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DETAILED COST ESTIMATE

Acct No 01TR205F50102D05J7BF01 DCN SEX002
 Work Assignment: 057-ROBF-05J7 Mod No 179
 American Chemical Services Mod. Date Dec 19, 2000
 Remedial Action Oversight
 LOCATION Griffith, IN OU No 0
 Work Type - RA Oversight Work Form T
 Site Specific Work Area Code = RO Activity Code = P
 Start Date: December 19, 2000 End Date: June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
 DIRECT LABOR
 DIRECT CHARGES \$0 0
 TRAVEL \$0 0
 Budget Approval Status UR
 Site Spill ID (S/SID): 05J7
 Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 2

PHASE NAME - COMMUNITY RELATIONS TECHNICAL SUPPORT

TASK CATEGORY CODE - CR

TASK TYPE - E

BVSPC PHASE NUMBER - 232

LABOR USAGE

LABOR CATEGORY

HOURS	AVERAGE RATES 2001-2005	TOTALS
Professional Level 4 (P4)	0	\$55.53 \$0.00
Professional Level 3 (P3)	24	\$42.37 \$1,016.88
Professional Level 2 (P2)	12	\$37.70 \$452.40
Professional Level 1 (P1)	0	\$24.23 \$0.00
Technician Level 2 (T2)	0	\$22.38 \$0.00
Technician Level 1 (T1)	8	\$18.37 \$146.96
TOTAL P/T LABOR	44	\$1,616.24
Clerical	0	\$17.16 \$0.00
TOTAL LABOR	44	\$1,616.24

FEE ESTIMATE *

1. TOTAL LABOR		\$1,616.24
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$2,073.09
3. TRAVEL:		
AIR FARE	\$400.00	
GROUND TRANSPORTATION	\$176.00	
MEALS/LODGING	\$170.00	\$746.00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$140.00	
SUPPLIES	\$150.00	
MAIL/COURIER	\$34.00	
COMPUTER COSTS	\$147.00	
REPORTS	\$0.00	
TELEPHONE	\$60.00	\$531.00
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$4,966.33
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$4,966.33
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$158.40
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$237.60
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$5,362.33
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$5,362.33

ESTIMATED BY	L.M. Campbell	APPROVED BY	W.T. Dudley	TOTAL COST	\$5,362.33
DATE	13-Apr-01	DATE	13-Apr-01		
		PROGRAM MANAGER	R.H. Herzog	EPA WAM.	K. Adler
		SITE MANAGER	L.M. Campbell	EPA PO	W. Gresham

* All costs are estimated based upon our best engineering judgment

PROJECT: 46526

PHASE NAME - COMMUNITY RELATIONS TECHNICAL SUPPORT

Labor Category	Public Meeting/ Availability Session						TOTALS
	Hours	Hours	Hours	Hours	Hours	Hours	Hours
Professional Level 4 (P4)	0						0
Professional Level 3 (P3)	24						24
Professional Level 2 (P2)	12						12
Professional Level 1 (P1)							0
Technician Level 2 (T2)							0
Technician Level 1 (T1)	8						8
Clerical							0
Total Hours =	44	0	0	0	0	0	44
LOE Hours =	44	0	0	0	0	0	44

PROJECT: 46526

PHASE NAME - COMMUNITY RELATIONS TECHNICAL SUPPORT

PUBLIC MEETING/AVAILABILITY SESSION

AIR FARE	1 PERSON	X		\$200.00 /TRIP X	2 TRIPS	=	\$400.00
GROUND TRANSPORTATION*							
FUEL	\$0.15 /MILE	X		120 MILES/TRIP X	2 TRIPS	=	\$36.00
CAR RENTAL	\$70.00 /DAY	X		1 DAYS X	2 TRIPS	=	\$140.00
MEALS/LODGING	1 PERSON(S)	X	1 DAYS X	\$85.00 /DAY X	2 TRIPS	=	\$170.00
MEALS	1 PERSON(S)	X	1 DAYS X	\$30.00 /DAY X	2 TRIPS	=	\$60.00
TOTAL							\$806.00

The Federal Travel Directory per diem rate (effective October 1, 2000) for continental US is \$55 per day for lodging and \$30 per day for meals and incidental expenses, for a total of \$85 per day.

PHASE NAME - COMMUNITY RELATIONS TECHNICAL SUPPORT

1	Micro-computer								
	Graphics Workstation			6 hours	X	\$11.00 per hour	=	\$66.00	
	General Use Workstation			9 hours	X	\$9.00 per hour	=	\$81.00	
2.	Long Distance Telephone								
	Office	5 calls/month	X	2 months	X	\$6.00 per call	=	\$60.00	
3.	General Postage	2 item/month	X	2 months	X	\$2.00 /item	=	\$8.00	
4.	Reproduction	2000 copies	X			\$0.07 /copy	=	\$140.00	
5.	Supplies	0 tabs	X	set(s)	X	0.15 /set		\$0.00	
		10 slides	X	1 set(s)	X	\$15.00 /slide		\$150.00	
6.	Shipping								
	Courier	1 items/month	X	2 months	X	\$13.00 /item	=	\$26.00	
7	Team Subcontractors								
						Team Subcontractor Total	=	\$0.00	
8.	Subcontractor Pool								
						Subcontractor Pool Total	=	\$0.00	
						TOTAL ODC'S	=	\$531.00	

General use workstation - 25% of Professional Level + 75% of Clerical Hours

***Task 3 - Data Acquisition / RD Oversight Cost Assumptions -
N/A***

This task is not included in the SOW of this WA. Therefore, no LOE is projected for this task.

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DETAILED COST ESTIMATE

Acct No 01TR205F50102D05J7BF01 DCN SEX002
 Work Assignment: 057-ROBF-05J7 Mod. No.: 179
 American Chemical Services Mod. Date: Dec. 19, 2000
 Remedial Action Oversight
 LOCATION: Griffith, IN OU No.: 0
 Work Type - RA Oversight Work Form: T
 Site Specific Work Area Code = RO Activity Code = P
 Start Date: December 19, 2000 End Date: June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
 DIRECT LABOR
 DIRECT CHARGES \$0 0
 TRAVEL \$0 0
 Budget Approval Status: UR
 Site Spill ID (S/SID): 05J7
 Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 3

PHASE NAME - DATA ACQUISITION / RD OVERSIGHT

TASK CATEGORY CODE - DA

TASK TYPE - E

BVSPC PHASE NUMBER - 233

LABOR USAGE

LABOR CATEGORY

HOURS

AVERAGE RATES

2001-2005

TOTALS

Professional Level 4 (P4)	0	\$55.53	\$0.00
Professional Level 3 (P3)	0	\$42.37	\$0.00
Professional Level 2 (P2)	0	\$37.70	\$0.00
Professional Level 1 (P1)	0	\$24.23	\$0.00
Technician Level 2 (T2)	0	\$22.38	\$0.00
Technician Level 1 (T1)	0	\$18.37	\$0.00
TOTAL P/T LABOR	0		\$0.00
Clerical	0	\$17.16	\$0.00
TOTAL LABOR	0		\$0.00

FEE ESTIMATE *

1 TOTAL LABOR		\$0.00
2 OVERHEAD (128.266% OF TOTAL LABOR)		\$0.00
3 TRAVEL		
AIR FARE	\$0.00	
GROUND TRANSPORTATION	\$0.00	
MEALS/LODGING	\$0.00	\$0.00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$0.00	
SUPPLIES	\$0.00	
MAIL/COURIER	\$0.00	
COMPUTER COSTS	\$0.00	
REPORTS	\$0.00	
TELEPHONE	\$0.00	\$0.00
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7 SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$0.00
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$0.00
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$0.00
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$0.00
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$0.00
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19 TOTAL COST PLUS FEE		\$0.00

ESTIMATED BY L.M. Campbell
 DATE: 13-Apr-01

APPROVED BY: W.T. Dudley
 DATE: 13-Apr-01
 PROGRAM MANAGER: R.H. Herzog
 SITE MANAGER: L.M. Campbell

TOTAL COST \$0.00
 EPA WAM: K. Adler
 EPA PO: W. Gresham

* All costs are estimated based upon our best engineering judgment.

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Task 4 - Analysis of Split Samples Cost Assumptions - N/A

This task is not included in the SOW of this WA. Therefore, no LOE is projected for this task.

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Black & Veatch Special Projects Corp.
DETAILED COST ESTIMATE

PAGE 1 OF 4

Acct No 01TR205F50102D05J7BF01 DCN SEX002
Work Assignment 057-ROBF-05J7 Mod No 179
American Chemical Services Mod Date Dec 19, 2000
Remedial Action Oversight
LOCATION Griffith, IN OU No 0
Work Type - RA Oversight Work Form T
Site Specific Work Area Code = RO Activity Code = P
Start Date: December 19, 2000 End Date: June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
DIRECT LABOR
DIRECT CHARGES \$0 0
TRAVEL \$0 0
Budget Approval Status: UR
Site Spill ID (S/SID): 05J7
Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 4

PHASE NAME - ANALYSIS OF SPLIT SAMPLES

TASK CATEGORY CODE - SN

TASK TYPE - E

BVSPC PHASE NUMBER - 234

LABOR USAGE

LABOR CATEGORY

HOURS

AVERAGE RATES

2001-2005

TOTALS

Professional Level 4 (P4)	0	\$55.53	\$0.00
Professional Level 3 (P3)	0	\$42.37	\$0.00
Professional Level 2 (P2)	0	\$37.70	\$0.00
Professional Level 1 (P1)	0	\$24.23	\$0.00
Technician Level 2 (T2)	0	\$22.38	\$0.00
Technician Level 1 (T1)	0	\$18.37	\$0.00
TOTAL P/T LABOR	0		\$0.00
Clerical	0	\$17.16	\$0.00
TOTAL LABOR	0		\$0.00

FEE ESTIMATE *

1. TOTAL LABOR		\$0.00
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$0.00
3. TRAVEL:		
AIR FARE	\$0.00	
GROUND TRANSPORTATION	\$0.00	
MEALS/LODGING	\$0.00	\$0.00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$0.00	
SUPPLIES	\$0.00	
MAIL/COURIER	\$0.00	
COMPUTER COSTS	\$0.00	
REPORTS	\$0.00	
TELEPHONE	\$0.00	\$0.00
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$0.00
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$0.00
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$0.00
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$0.00
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$0.00
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$0.00

ESTIMATED BY: L. Campbell	APPROVED BY: W. T. Dudley	TOTAL COST	\$0.00
DATE: 13-Apr-01	DATE: 13-Apr-01		
	PROGRAM MANAGER: R.H. Herzog	EPA WAM	K. Adler
	SITE MANAGER: L. Campbell	EPA PO	W. Gresham

* All costs are estimated based upon our best engineering judgment.

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Task 5 - Analytical Support and Data Validation of Split Samples Cost Assumptions - N/A

This task is not included in the SOW of this WA. Therefore, no LOE is projected for this task.

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Black & Veatch Special Projects Corp
DETAILED COST ESTIMATE

PAGE 1 OF 4

Acct No 01TR205F50102D05J7BF01 DCN SEX002
Work Assignment 057-ROBF-05J7 Mod No 179
American Chemical Services Mod Date Dec 19, 2000
Remedial Action Oversight
LOCATION Griffith, IN OU No 0
Work Type - RA Oversight Work Form T
Site Specific Work Area Code = RO Activity Code = P
Start Date: December 19, 2000 End Date June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
DIRECT LABOR
DIRECT CHARGES \$0 0
TRAVEL \$0 0
Budget Approval Status: UR
Site Spill ID (S/SID): 05J7
Allocation Code: N/A

PROJECT: 46526 TASK NUMBER - 5
TASK CATEGORY CODE - AN
TASK TYPE - E
BVSPC PHASE NUMBER - 235

PHASE NAME - ANALYTICAL SUPPORT AND
DATA VALIDATION OF SPLIT SAMPLES

LABOR USAGE

LABOR CATEGORY

HOURS	AVERAGE RATES 2001-2005	TOTALS
Professional Level 4 (P4)	0 \$55.53	\$0.00
Professional Level 3 (P3)	0 \$42.37	\$0.00
Professional Level 2 (P2)	0 \$37.70	\$0.00
Professional Level 1 (P1)	0 \$24.23	\$0.00
Technician Level 2 (T2)	0 \$22.38	\$0.00
Technician Level 1 (T1)	0 \$18.37	\$0.00
TOTAL P/T LABOR	0	\$0.00
Clerical	0 \$17.16	\$0.00
TOTAL LABOR	0	\$0.00

FEE ESTIMATE *

1. TOTAL LABOR		\$0.00
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$0.00
3. TRAVEL:		
AIR FARE	\$0.00	
GROUND TRANSPORTATION	\$0.00	
MEALS/LODGING	\$0.00	\$0.00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$0.00	
SUPPLIES	\$0.00	
MAIL/COURIER	\$0.00	
COMPUTER COSTS	\$0.00	
REPORTS	\$0.00	
TELEPHONE	\$0.00	\$0.00
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$0.00
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$0.00
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$0.00
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$0.00
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$0.00
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$0.00

ESTIMATED BY:	L.M. Campbell	APPROVED BY:	W.T. Dudley	TOTAL COST	\$0.00
DATE	13-Apr-01	DATE:	13-Apr-01		
		PROGRAM MANAGER:	R.H. Herzog	EPA WAM:	K. Adler
		SITE MANAGER:	L.M. Campbell	EPA PO:	W. Gresham

* All costs are estimated based upon our best engineering judgment.

Enforcement Support
EPA Contract No.: 68-W5-0004
Work Assignment No.: 057-ROBF-05J7

Work Plan
Rev. No.: 0

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***Task 6 - Data Evaluation of Split Samples Cost Assumptions -
N/A***

This task is not included in the SOW of this WA. Therefore, no LOE is projected for this task.

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Black & Veatch Special Projects Corp
DETAILED COST ESTIMATE

PAGE 1 OF 4

Acct No 01TR205F50102D05J7BF01 DCN. SEX002
Work Assignment: 057-ROBF-05J7 Mod No 179
American Chemical Services Mod Date Dec. 19, 2000
Remedial Action Oversight
LOCATION: Griffith, IN OU No 0
Work Type - RA Oversight Work Form T
Site Specific Work Area Code = RO Activity Code = P
Start Date December 19, 2000 End Date June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
DIRECT LABOR
DIRECT CHARGES \$0 0
TRAVEL \$0 0
Budget Approval Status: UR
Site Spill ID (S/SID): 05J7
Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 6

TASK CATEGORY CODE - DE

TASK TYPE - E

BVSPC PHASE NUMBER - 236

PHASE NAME - DATA EVALUATION OF SPLIT SAMPLES

LABOR USAGE

LABOR CATEGORY

HOURS

AVERAGE RATES

2001-2005

TOTALS

Professional Level 4 (P4)	0	\$55 53	\$0 00
Professional Level 3 (P3)	0	\$42 37	\$0 00
Professional Level 2 (P2)	0	\$37 70	\$0 00
Professional Level 1 (P1)	0	\$24 23	\$0 00
Technician Level 2 (T2)	0	\$22 38	\$0 00
Technician Level 1 (T1)	0	\$18 37	\$0 00
TOTAL P/T LABOR	0		\$0 00
Clerical	0	\$17 16	\$0 00
TOTAL LABOR	0		\$0 00

FEE ESTIMATE *

1. TOTAL LABOR		\$0 00
2. OVERHEAD (128 266% OF TOTAL LABOR)		\$0 00
3. TRAVEL		
AIR FARE	\$0 00	
GROUND TRANSPORTATION	\$0 00	
MEALS/LODGING	\$0 00	\$0 00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0 00	
TAPAN AM	\$0 00	\$0 00
5 OTHER DIRECT COSTS		
REPRODUCTION	\$0 00	
SUPPLIES	\$0 00	
MAIL/COURIER	\$0 00	
COMPUTER COSTS	\$0 00	
REPORTS	\$0 00	
TELEPHONE	\$0 00	\$0 00
6 EQUIPMENT POOL - SITE SPECIFIC		\$0 00
7 SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0 00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$0 00
9 FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0 00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$0 00
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$0 00
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0 00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0 00
14. AWARD FEE	\$5 40 X PROFESSIONAL/TECHNICAL LOE	\$0 00
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0 00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0 00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$0 00
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0 00
19. TOTAL COST PLUS FEE		\$0 00

ESTIMATED BY	L M Campbell	APPROVED BY	W T. Dudley	TOTAL COST	\$0 00
DATE:	13-Apr-01	DATE:	13-Apr-01		
		PROGRAM MANAGER	R H Herzog	EPA WAM	K Adler
		SITE MANAGER:	L M Campbell	EPA PO.	W Gresham

* All costs are estimated based upon our best engineering judgment.

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Task 7 - Review of PRP Group Remedial Action Documents

Cost Assumptions

The cost assumptions associated with this task are highlighted or are apparent in the task detail estimate work sheet. Other specific cost assumptions are as follows:

- The SOW specified review of draft and final versions of the following PRP Group RA documents:
 - ▶ RA Work Plan, if a revision is submitted [Minor]**
 - ▶ Site Management Plan for Construction, if a revision is submitted [Minor]
 - ▶ Operations & Maintenance (O&M) Manual (one O&M Manual each for the groundwater treatment system and the soil vapor extraction system) (Meeting)*** [Major] {Tech. Spec.}****
 - ▶ Remedial Action Report (Meeting) [Major]
 - ▶ As-Built Drawings (Meeting) [Major]
 - ▶ Construction Quality Assurance Project Plan (QAPP) [Major]
 - ▶ Construction QA Reports (meeting) [Nominal]
 - ▶ Construction Change Orders (2 COs) [Minor]
 - ▶ Other Non-Specified PRP Group Technical Deliverable [Nominal]
- The above-listed documents have been categorized as requiring varying levels of review effort, namely: major, nominal, and minor. This effort is applicable to the draft document. Review of the final document is budgeted at approximately one-fourth the effort of the draft review. The budgeted LOE for each level of review is as follows:
 - ▶ Major effort: SM (P3) - 8 hours, P2 - 40 hours, clerical - 4 hours
 - ▶ Nominal effort: SM (P3) - 4 hours, P2 - 20 hours, clerical - 2 hours
 - ▶ Minor effort: SM (P3) - 2 hours, P2 - 8 hours, clerical - 1 hour

**Braketed items indicate anticipated required level of review, as described subsequently.

***BVSPC personnel shall participate in a review meeting at the ACS site for this document, as described subsequently.

****{Tech. Spec.} indicates that additional technical specialist(s) will participate in the review.

- For selected documents (as identified above by {tech. Spec.}), additional review by other technical specialists will be required. This technical review has been budgeted at the P3 level as follows:
 - Major effort: P3 - 10 hours
 - Nominal effort: P3 - 5 hours
 - Minor effort: P3 - 2 hours
- The SOW stipulated the attendance at four technical review meetings at the site that would each last 4 hours. The technical document review meetings have been budgeted at 8 hours each for the SM and Project Geologist, to include time for preparation, travel, and attendance.

DETAILED COST ESTIMATE

Acct No 01TR205F50102D05J7BF01 DCN: SEX002
 Work Assignment 057-ROBF-05J7 Mod. No. 179
 American Chemical Services Mod. Date: Dec 19, 2000
 Remedial Action Oversight
 LOCATION: Griffith, IN OU No. 0
 Work Type - RA Oversight Work Form: T
 Site Specific Work Area Code = RO Activity Code = P
 Start Date: December 19, 2000 End Date: June 14, 2005

EXPENDITURE LIMITS: \$100,000 LOE 695
 DIRECT LABOR
 DIRECT CHARGES \$0 0
 TRAVEL \$0 0
 Budget Approval Status: UR
 Site Spill ID (S/SID): 05J7
 Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 7

TASK CATEGORY CODE - RP

TASK TYPE - E

BVSPC PHASE NUMBER - 237

PHASE NAME - REVIEW OF PRP GROUP RA DOCUMENTS

LABOR USAGE

LABOR CATEGORY

HOURS	AVERAGE RATES	TOTALS
	2001-2005	
8	\$55.53	\$444.24
119	\$42.37	\$5,042.03
372	\$37.70	\$14,024.40
0	\$24.23	\$0.00
0	\$22.38	\$0.00
0	\$18.37	\$0.00
499		\$19,510.67
35	\$17.16	\$600.60
534		\$20,111.27

FEE ESTIMATE *

1. TOTAL LABOR		\$20,111.27
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$25,795.92
3. TRAVEL:		
AIR FARE	\$0.00	
GROUND TRANSPORTATION	\$352.00	
MEALS/LODGING	\$80.00	\$432.00
4. TEAM SUBCONTRACTORS		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$70.00	
SUPPLIES	\$0.00	
MAIL/COURIER	\$152.00	
COMPUTER COSTS	\$459.00	
REPORTS	\$0.00	
TELEPHONE	\$88.00	\$769.00
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$47,108.19
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$47,108.19
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$1,796.40
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$2,694.60
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$51,599.19
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$51,599.19

ESTIMATED BY L M Campbell
 DATE 13-Apr-01

APPROVED BY W T Dudley
 DATE 13-Apr-01
 PROGRAM MANAGER R H. Herzog
 SITE MANAGER L.M. Campbell

TOTAL COST \$51,599.19
 EPA WAM: K. Adler
 EPA PO: W. Gresham

* All costs are estimated based upon our best engineering judgment.

PROJECT: 46526

PHASE NAME - REVIEW OF PRP GROUP RA DOCUMENTS

Labor Category	SOW Deliverables	Technical Review Meetings					
	Hours	Hours	Hours	Hours	Hours	Hours	Hours
Professional Level 4 (P4)	0	8					
Professional Level 3 (P3)	95	24					
Professional Level 2 (P2)	340	32					
Professional Level 1 (P1)	0	0					
Technician Level 2 (T2)	0	0					
Technician Level 1 (T1)	0	0					
Clerical	35	0					
Total Hours =	470	64	0	0	0	0	0
LOE Hours =	435	64	0	0	0	0	0

Labor Category								TOTAL
	Hours							Hours
Professional Level 4 (P4)								8
Professional Level 3 (P3)								119
Professional Level 2 (P2)								372
Professional Level 1 (P1)								0
Technician Level 2 (T2)								0
Technician Level 1 (T1)								0
Clerical								35
Total Hours =	0	0	0	0	0	0	0	534
LOE Hours =	0	0	0	0	0	0	0	499

TRAVEL BREAKDOWN

TASK NUMBER - 7

PAGE 3 OF 4

PROJECT: 46526

PHASE NAME - REVIEW OF PRP GROUP RA DOCUMENTS

AIR FARE	0 PERSON	X		/TRIP X	0 TRIPS	=	0
GROUND TRANSPORTATION							
FUEL	\$0 15 /MILE	X		120 MILES/TRIP X	4 TRIPS	=	72
CAR RENTAL	\$70.00 /DAY	X		1 DAYS X	4 TRIPS	=	280
MEALS/LODGING	PERSON(S)	X	DAYS	X \$85.00 /DAY X	TRIPS	=	0
MEALS	2 PERSON(S)	X	1 DAYS	X \$10.00 /DAY X	4 TRIPS	=	\$80.00
TOTAL							\$432.00

The Federal Travel Directory per diem rate (effective October 1, 2000) for continental US is \$55 per day for lodging and \$30 per day for meals and incidental expenses, for a total of \$85 per day.

PROJECT: 46526

PHASE NAME - REVIEW OF PRP GROUP RA DOCUMENTS

1 Micro-computer								
Graphics Workstation		0 hours	X		\$11.00 per hour	=	\$0.00	
General Use Workstation		51 hours	X		\$9.00 per hour	=	\$459.00	
2 Long Distance Telephone								
Office	2 calls/document X	11 documents	x		\$4.00 per call	=	\$88.00	
3 General Postage	1 items X	11 documents	x		\$2.00 /item	=	\$22.00	
4 Reproduction	1000 copies X				\$0.07 /copy	=	\$70.00	
5 Supplies	tabs X	set(s)	X		0.15 /set		\$0.00	
6 Shipping								
Courier	10 items X				\$13.00 /item	=	\$130.00	
7 Team Subcontractors								
					Team Subcontractor Total	=	\$0.00	
8 Subcontractor Pool								
					Subcontractor Pool Total	=	\$0.00	
					TOTAL ODC'S	=	\$769.00	

Assumptions:

Graphics work station hours = 75 % of Technician Hours

General use workstation - 5% of Professional Level + 75% of Clerical Hours

Task 8 - Remedial Action Oversight Cost Assumptions

The majority of the cost assumptions associated with this task are highlighted or apparent in the task detail estimate work sheet. Other specific cost assumptions are as follows:

- The duration of the RA oversight task will be 48 months (208 weeks) (April 2001 through March 2005).
- The RA field oversight will be performed by P2 and P1* personnel from various BVSPC offices, including our Chicago (primary), Kansas City, Atlanta, and Philadelphia offices, depending upon the individual's technical background and the oversight needs. Assume the oversight personnel will work 8-hour days, plus 2 hours local travel for Chicago-based personnel. As directed by the WAM, we have budgeted oversight to be performed 2 days/week for 208 weeks.
- The SOW indicates that there will be times when multiple inspectors will be required because of the conduct of simultaneous operations requiring oversight. Accordingly, we have assumed that another P2 or P1 inspector may be required approximately 25% of the time, that is 52 weeks. The second inspector would also work 2 days per week at 8 hours per day, plus 2 hours local travel.
- Additionally, more intense oversight may be authorized by the WAM, as necessary. We have assumed that one out-of-town P3 specialist from another BVSPC office will travel to the site two times in each of the 4 oversight years for more intense oversight events lasting 1 week each. This would be 8 trips for a total duration of 8 weeks. Assume 40 hours onsite plus 8 hours travel per event.
- Oversight of semiannual groundwater sampling events will be performed in addition to the RA oversight efforts described above. The groundwater sampling oversight will be performed by one inspector for 2 days during each of 10 semiannual sampling events. The oversight inspector will work 8-hour days, plus 2 hours local travel for Chicago-based personnel.

*As agreed during the negotiations conference call on April 12, 2001, the original number of P2 LOE hours in Task 8 of the Draft Work Plan have been redistributed as 60% P2 and 40% P1 hours.

- Oversight of the quarterly groundwater sampling events will be performed as part of the RA oversight operations, so no separate effort is budgeted for this activity.
- Each oversight person will rent a vehicle for the oversight activities; these are budgeted at \$0.15 per mile for fuel and \$70 per day.
- Preparation of each of the 10 semiannual groundwater sampling oversight reports is budgeted at 3.6 P2 hours, 2.4 P1 hours, 1 SM (P3) hour, and 2 clerical hours.
- Preparation of each of the 48 monthly RA oversight reports is budgeted at 7.2 P2 hours, 4.8 P1 hours, 2 SM (P3) hours, and 2 clerical hours.
- Preparation of the final summary report is budgeted at 32 P1 hours, 48 P2 hours, 16 P3 hours, 4 SM (P3) hours, 4 P4 hours, 20 T2 hours, and 20 clerical hours.

Black & Veatch Special Projects Corp
DETAILED COST ESTIMATE

PAGE 1 OF 4

Acct No 01TR205F50102D05J7BF01 DCN SEX002
Work Assignment 057-ROBF-05J7 Mod No 179
American Chemical Services Mod Date Dec 19, 2000
Remedial Action Oversight
LOCATION Griffith, IN OU No 0
Work Type - RA Oversight Work Form T
Site Specific Work Area Code = RO Activity Code = P
Start Date December 19, 2000 End Date June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
DIRECT LABOR
DIRECT CHARGES \$0 0
TRAVEL \$0 0
Budget Approval Status UR
Site Spill ID (S/SID): 05J7
Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 8

PHASE NAME - REMEDIAL ACTION OVERSIGHT

TASK CATEGORY CODE - RO

TASK TYPE - E

BVSPC PHASE NUMBER - 238

LABOR USAGE

LABOR CATEGORY

LABOR CATEGORY	HOURS	AVERAGE RATES 2001-2005	TOTALS
Professional Level 4 (P4)	4	\$55.53	\$222.12
Professional Level 3 (P3)	728	\$42.37	\$30,845.36
Professional Level 2 (P2)	3,670	\$37.70	\$138,343.92
Professional Level 1 (P1)	2,446	\$24.23	\$59,276.27
Technician Level 2 (T2)	20	\$22.38	\$447.60
Technician Level 1 (T1)	0	\$18.37	\$0.00
TOTAL P/T LABOR	6,868		\$229,135.27
Clerical	136	\$17.16	\$2,333.76
TOTAL LABOR	7,004		\$231,469.03

FEE ESTIMATE *

1. TOTAL LABOR		\$231,469.03
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$296,896.07
3. TRAVEL:		
AIR FARE	\$800.00	
GROUND TRANSPORTATION	\$53,020.00	
MEALS/LODGING	\$8,800.00	\$62,620.00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$140.00	
SUPPLIES	\$7,584.00	
MAIL/COURIER	\$720.00	
COMPUTER COSTS	\$3,046.00	
REPORTS	\$0.00	
TELEPHONE	\$3,232.00	\$14,722.00
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$605,707.10
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$605,707.10
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$24,724.80
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$37,087.20
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$667,519.10
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$667,519.10

ESTIMATED BY L M Campbell
DATE 13-Apr-01

APPROVED BY: W.T. Dudley
DATE 13-Apr-01
PROGRAM MANAGER: R.H. Herzog
SITE MANAGER: L.M. Campbell

TOTAL COST \$667,519.10
EPA WAM K. Adler
EPA PO W. Gresham

* All costs are estimated based upon our best engineering judgment.

PROJECT: 46526

PHASE NAME - REMEDIAL ACTION OVERSIGHT

	RA Field Oversight	Additional RA Field Oversight	Intense RA Field Oversight	Groundwater Sampling Oversight			Subtotal Oversight
Labor Category		Hours	Hours	Hours	Hours	Hours	Hours
Professional Level 4 (P4)	0	0	0	0			0
Professional Level 3 (P3)	208	0	384	10			602
Professional Level 2 (P2)	2,496	624	0	120			3,240
Professional Level 1 (P1)	1,664	416	0	80			2,160
Technician Level 2 (T2)	0	0	0	0			0
Technician Level 1 (T1)	0	0	0	0			0
Clerical							0
Total Hours =	4368	1040	384	210	0	0	6002
LOE Hours =	4368	1040	384	210	0	0	6002

	Groundwater Oversight Reports	Monthly RA Oversight Reports	Final RA Summary Report			Subtotal Reports	TOTAL
Labor Category	Hours						Hours
Professional Level 4 (P4)			4			4	4
Professional Level 3 (P3)	10	96	20			126	728
Professional Level 2 (P2)	36	346	48			430	3370
Professional Level 1 (P1)	24	230	32			286	2446
Technician Level 2 (T2)			20			20	20
Technician Level 1 (T1)						0	0
Clerical	20	96	20			136	136
Total Hours =	90	768	144	0	0	1,002	7,004
LOE Hours =	70	672	124	0	0	866	6,368

		weeks	dy/wk	hr/dy	Total	days	Effort
Field RA O/S	P2	124.8	2	10	2,496	249.6	60%
	P1	83.2	2	10	1,664	166.4	40%
Additional RA O/S	P2	31.2	2	10	624	62.4	60%
	P1	20.8	2	10	416	41.6	40%
Intense RA O/S	P3	8	5	8	320	40	100%
travel	P3	8	2	4	64	384	100%
GW Sampling O/S	P2	6	2	10	120	12	60%
	P1	4	2	10	80	8	40%
					5,704	580	

OTHER DIRECT COSTS

TASK NUMBER - 8

PAGE 4 OF 4

PROJECT: 46526

PHASE NAME - REMEDIAL ACTION OVERSIGHT

1 Micro-computer								
Graphics Workstation			20 hours	X	\$11.00 per hour	=	\$220.00	
General Use Workstation			314 hours	X	\$9.00 per hour	=	\$2,826.00	
2 Long Distance Telephone								
Office	208 call	X		X	\$4.00 per call	=	\$832.00	
Field Cellular Phone	48 months	x		X	\$50.00 /month	=	\$2,400.00	
3 General Postage	48 months	X			\$2.00 /item	=	\$96.00	
4 Reproduction	2000 copies	X			\$0.07 /copy	=	\$140.00	
5 Supplies	218 photos/develop	X	1 set(s)	X	\$30.00 /set		\$6,540.00	
Report supplies	58 reports	X			\$18.00 /binder		\$1,044.00	
6 Shipping								
Courier	48 items				\$13.00 /item	=	\$624.00	
7 Team Subcontractors								
					Team Subcontractor Total	=	\$0.00	
8. Sucontractor Pool								
					Subcontractor Pool Total	=	\$0.00	
					TOTAL ODC'S	=	\$14,722.00	

Assumptions:

Graphics work station hours = 100 % of Technician Hours on Reports (excluding oversight)

General use workstation - 25% of Professional Level + 75% of Clerical Hours on Reports (excluding oversight)

Task 9 - Technical Meeting Support Cost Assumptions

The majority of the cost assumptions associated with this task are highlighted or apparent in the task detail estimate work sheet. Other specific cost assumptions are as follows:

- Based on direction from the WAM at the kickoff meeting, we have budgeted one meeting for each of four major RA tasks. We have assumed that each meeting will be held at EPA offices, will last 8 hours, and will be attended by two BVSPC personnel, typically the SM (P3) and the Project Geologist (P2). We have assumed that an additional BVSPC person (P3) will travel from another BVSPC office for one of the meetings and will require an overnight stay. Each person will spend 8 hours in preparation prior to each meeting.
- Based on direction from the WAM at the kickoff meeting, we have budgeted for one technical meeting during each of the 4 years of the WA. We have assumed that each of the four meetings will be held at EPA offices, will last 8 hours, and will be attended by the SM (P3). The SM will spend 8 hours in preparation prior to each meeting.

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DETAILED COST ESTIMATE

Acct No 01TR205F50102D05J7BF01

DCN: SEX002

Work Assignment 057-ROBF-05J7

Mod. No. 179

American Chemical Services

Mod. Date Dec 19, 2000

Remedial Action Oversight

LOCATION: Griffith, IN

OU No 0

Work Type - RA Oversight

Work Form T

Site Specific Work Area Code = RO

Activity Code = P

Start Date: December 19, 2000

End Date: June 14, 2005

EXPENDITURE LIMITS

\$100.000 LOE 695

DIRECT LABOR

DIRECT CHARGES

\$0 0

TRAVEL

\$0 0

Budget Approval Status: UR

Site Spill ID (S/SID) 05J7

Allocation Code N/A

PROJECT: 46526

TASK NUMBER - 9

PHASE NAME - TECHNICAL MEETING SUPPORT

TASK CATEGORY CODE - TM

TASK TYPE - E

BVSPC PHASE NUMBER -239

LABOR USAGE

LABOR CATEGORY

HOURS

AVERAGE RATES

2001-2005

TOTALS

Professional Level 4 (P4)	0	\$55.53	\$0.00
Professional Level 3 (P3)	148	\$42.37	\$6,270.76
Professional Level 2 (P2)	128	\$37.70	\$4,825.60
Professional Level 1 (P1)	0	\$24.23	\$0.00
Technician Level 2 (T2)	0	\$22.38	\$0.00
Technician Level 1 (T1)	0	\$18.37	\$0.00
TOTAL P/T LABOR	276		\$11,096.36
Clerical	0	\$17.16	\$0.00
TOTAL LABOR	276		\$11,096.36

FEE ESTIMATE *

1. TOTAL LABOR			\$11,096.36
2. OVERHEAD (128.266% OF TOTAL LABOR)			\$14,232.86
3. TRAVEL:			
AIR FARE		\$200.00	
GROUND TRANSPORTATION		\$47.50	
MEALS/LODGING		\$176.00	\$423.50
4. TEAM SUBCONTRACTORS:			
BLACK & VEATCH		\$0.00	
TAPAN AM		\$0.00	\$0.00
5. OTHER DIRECT COSTS			
REPRODUCTION		\$35.00	
SUPPLIES		\$0.00	
MAIL/COURIER		\$0.00	
COMPUTER COSTS		\$252.00	
REPORTS		\$0.00	
TELEPHONE		\$32.00	\$319.00
6. EQUIPMENT POOL - SITE SPECIFIC			\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)			\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)			\$26,071.72
9. FACILITIES CAPITAL COST OF MONEY (FCCM)			\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)			\$26,071.72
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE		\$993.60
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6		\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7		\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE		\$1,490.40
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6		\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7		\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)			\$28,555.72
18. CONTRACTORS POLLUTION LIABILITY INSURANCE			\$0.00
19. TOTAL COST PLUS FEE			\$28,555.72

ESTIMATED BY: L.M. Campbell
DATE: 13-Apr-01APPROVED BY: W.T. Dudley
DATE: 13-Apr-01
PROGRAM MANAGER: R.H. Herzog
SITE MANAGER: L.M. CampbellTOTAL COST: \$28,555.72
EPA WAM: K. Adler
EPA PO: W. Gresham

* All costs are estimated based upon our best engineering judgment

PROJECT: 46526

PHASE NAME - TECHNICAL MEETING SUPPORT

Labor Category	Technical RA Meeting Support	Annual Technical Meeting						TOTALS
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
Professional Level 4 (P4)	0	0						0
Professional Level 3 (P3)	84	64						148
Professional Level 2 (P2)	64	64						128
Professional Level 1 (P1)								0
Technician Level 2 (T2)								0
Technician Level 1 (T1)								0
Clerical								0
Total Hours =	148	128	0	0	0	0	0	276
LOE Hours =	148	128	0	0	0	0	0	276

PHASE NAME - TECHNICAL MEETING SUPPORT

AIR FARE	1 PERSON	X	\$200.00 /TRIP X	1 TRIPS	=	200.00
GROUND TRANSPORTATION						
MILEAGE -	\$0.325 /MILE	X	100 MILES/TRIP X	1 TRIPS	=	32.50
PARKING -	\$15.00 /MEETING	X		1 MEETINGS	=	15.00
MEALS/LODGING	\$1.00 PERSONS	X	\$176.00 /DAY X	1 DAYS	=	176.00
					TOTAL	\$423.50

The Federal Travel Directory per diem rate (effective October 1, 2000) for Chicago, IL is \$130 per day for lodging and \$46 per day for meals and incidental expenses, for a total of \$176 per day.

OTHER DIRECT COSTS

TASK NUMBER - 9

PAGE 4 OF 4

PROJECT: 46526

PHASE NAME - TECHNICAL MEETING SUPPORT

1. Micro-computer								
Graphics Workstation			0 hours	X	\$11.00 per hour	=	\$0.00	
General Use Workstation			28 hours	X	\$9.00 per hour	=	\$252.00	
2. Long Distance Telephone								
Office	8 calls	X			\$4.00 per call	=	\$32.00	
3. General Postage	items	X			\$2.00 /item	=	\$0.00	
4. Reproduction	500 copies	X			\$0.07 /copy	=	\$35.00	
5. Supplies	tabs	X	4 set(s)	X	0.15 /set		\$0.00	
	binders	X	4 set(s)	X	\$2.00 /binder		\$0.00	
6. Shipping								
Courier	items	X			\$13.00 /item	=	\$0.00	
7. Team Subcontractors								
					Team Subcontractor Total	=	\$0.00	
8. Subcontractor Pool								
					Subcontractor Pool Total	=	\$0.00	
					TOTAL ODC'S	=	\$319.00	

Assumptions:

Graphics work station hours = 75 % of Technician Hours

General use workstation = 10% of Professional Level + 75% of Clerical Hours

Task 10 - Work Assignment Closeout Cost Assumptions

The cost assumptions associated with this task are highlighted or apparent in the task detail estimate work sheet. A nominal amount of hours^{*} has been included to perform closeout activities. Additional LOE and dollars may be required if additional closeout efforts are later defined.

^{*} As agreed in the negotiations conference call on April 12, 2001, the labor effort was reduced by 10 LOE hours spread throughout the P4-P1 levels.

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DETAILED COST ESTIMATE

Acct No. 01TR205F50102D05J7BF01 DCN SEX002
 Work Assignment 057-ROBF-05J7 Mod No. 179
 American Chemical Services Mod Date Dec 19, 2000
 Remedial Action Oversight
 LOCATION: Griffith, IN OU No. 0
 Work Type - RA Oversight Work Form: T
 Site Specific Work Area Code = RO Activity Code = P
 Start Date December 19, 2000 End Date: June 14, 2005

EXPENDITURE LIMITS \$100,000 LOE 695
 DIRECT LABOR
 DIRECT CHARGES \$0 0
 TRAVEL \$0 0
 Budget Approval Status: UR
 Site Spill ID (S/SID): 05J7
 Allocation Code: N/A

PROJECT: 46526

TASK NUMBER - 10

PHASE NAME - WORK ASSIGNMENT CLOSE OUT

TASK CATEGORY CODE - CO

TASK TYPE - E

BVSPC PHASE NUMBER - 240

LABOR USAGE

LABOR CATEGORY

HOURS

AVERAGE RATES

TOTALS

2001-2005

Professional Level 4 (P4)	9	\$55.53	\$499.77
Professional Level 3 (P3)	26	\$42.37	\$1,101.62
Professional Level 2 (P2)	12	\$37.70	\$452.40
Professional Level 1 (P1)	10	\$24.23	\$242.30
Technician Level 2 (T2)	0	\$22.38	\$0.00
Technician Level 1 (T1)	0	\$18.37	\$0.00
TOTAL P/T LABOR	57		\$2,296.09
Clerical	9	\$17.16	\$154.44
TOTAL LABOR	66		\$2,450.53

FEE ESTIMATE *

1. TOTAL LABOR		\$2,450.53
2. OVERHEAD (128.266% OF TOTAL LABOR)		\$3,143.20
3. TRAVEL:		
AIR FARE	\$0.00	
GROUND TRANSPORTATION	\$0.00	
MEALS/LODGING	\$0.00	\$0.00
4. TEAM SUBCONTRACTORS:		
BLACK & VEATCH	\$0.00	
TAPAN AM	\$0.00	\$0.00
5. OTHER DIRECT COSTS		
REPRODUCTION	\$35.00	
SUPPLIES	\$0.00	
MAIL/COURIER	\$780.00	
COMPUTER COSTS	\$108.00	
REPORTS	\$0.00	
TELEPHONE	\$48.00	\$971.00
6. EQUIPMENT POOL - SITE SPECIFIC		\$0.00
7. SUBCONTRACT POOL (FROM ATTACHMENTS)		\$0.00
8. SUBTOTAL A (ITEMS 1 THRU 7)		\$6,564.73
9. FACILITIES CAPITAL COST OF MONEY (FCCM)		\$0.00
10. ESTIMATED COST (ITEMS 8 THRU 9)		\$6,564.73
11. BASE FEE	\$3.60 X PROFESSIONAL/TECHNICAL LOE	\$205.20
12. BASE FEE - EQUIPMENT POOL	4% OF ITEM 6	\$0.00
13. BASE FEE - SUBCONTRACTS	2% OF ITEM 7	\$0.00
14. AWARD FEE	\$5.40 X PROFESSIONAL/TECHNICAL LOE	\$307.80
15. AWARD FEE - EQUIPMENT POOL	6% OF ITEM 6	\$0.00
16. AWARD FEE - SUBCONTRACTS	3% OF ITEM 7	\$0.00
17. SUBTOTAL (ITEMS 10 THRU 16)		\$7,077.73
18. CONTRACTORS POLLUTION LIABILITY INSURANCE		\$0.00
19. TOTAL COST PLUS FEE		\$7,077.73

ESTIMATED BY: L.M. Campbell
 DATE: 13-Apr-01

APPROVED BY: W.T. Dudley
 DATE: 13-Apr-01
 PROGRAM MANAGER: R.H. Herzog
 SITE MANAGER: L.M. Campbell

TOTAL COST \$7,077.73
 EPA WAM: K. Adler
 EPA PO: W. Gresham

* All costs are estimated based upon our best engineering judgment

PROJECT: 46526

PHASE NAME - WORK ASSIGNMENT CLOSE OUT

	File Management	WA Close Out Report					
Labor Category	Hours	Hours	Hours	Hours	Hours	Hours	Hours
Professional Level 4 (P4)	4	5					9
Professional Level 3 (P3)	26	0					26
Professional Level 2 (P2)	10	2					12
Professional Level 1 (P1)	10						10
Technician Level 2 (T2)							0
Technician Level 1 (T1)							0
Clerical	8	1					9
Total Hours =	58	8	0	0	0	0	66
LOE Hours =	50	7	0	0	0	0	57

TRAVEL BREAKDOWN

TASK NUMBER - 10

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PROJECT: 46526

PHASE NAME - WORK ASSIGNMENT CLOSE OUT

AIR FARE :	0 PERSON	X	/TRIP X	TRIPS	=	0 00
GROUND TRANSPORTATION						
MILEAGE -	\$325.000 /MILE	X	MILES/TRIP X	0 TRIPS	=	0 00
PARKING -	\$15 00 /MEETING	X		0 MEETINGS	=	0 00
MEALS/LODGING	PERSONS	X	\$85 00 /DAY X	DAYS	=	0 00
TOTAL						\$0.00

The Federal Travel Directory per diem rate (effective October 1, 2000) for continental US is \$55 per day for lodging and \$30 per day for meals and incidental expenses, for a total of \$85 per day.

PROJECT: 46526

PHASE NAME - WORK ASSIGNMENT CLOSE OUT

1. Micro-computer								
Graphics Workstation			0.00	hours	X	\$11.00	per hour	= \$0.00
General Use Workstation			12.00	hours	X	\$9.00	per hour	= \$108.00
2. Long Distance Telephone								
Office	12	calls	X			\$4.00	per call	= \$48.00
3. General Postage	15	items	X			\$2.00	/item	= \$30.00
4. Reproduction	500	copies	X			\$0.07	/copy	= \$35.00
5. Supplies		tabs	X	set(s)	X	0.15	/set	\$0.00
		binders	X	set(s)	X	\$2.00	/binder	\$0.00
6. Shipping								
Courier	30	boxes	X		X	\$25.00	/box	= \$750.00
7. Team Subcontractors								
						Team Subcontractor Total		= \$0.00
8. Subcontractor Pool								
Lump Sum Subcontractors:								
						Subcontractor Pool Total		= \$0.00
						TOTAL ODC'S		= \$971.00

Assumptions:

Graphics work station hours = 75 % of Technician Hours

General use workstation = 10% of Professional Level + 75% of Clerical Hours